



KATFISH Launch and Recovery System for Unmanned Surface Vessels

Autonomous Operations

- Fully unmanned launch and recovery process from unmanned surface vessels (USVs) for remote operations
- System mitigates risk during high sea-states, wave action, and dynamic vessel movements
- Launch and recovery process remotely monitored through sensors and video link

Intelligent Winch Control

- Perform safe and effective launch and recovery in harsh environments through measurement of the surface vessel and KATFISH motion
- Assist KATFISH in active terrain following and
 obstacle avoidance through adjustments to tow
 cable
- Automatically pay out cable if load exceeds a pre-set threshold
- Manages constant tow cable tension throughout launch and recovery sequence ensuring safest possible transition to and from water



- **Flexible Deployment**
- Designed for integration on USVs from 11+ meters
- Constructed of titanium for high strength, low weight, and low magnetic signature
- Suitable for deployment from USVs with up to 1.2-meter aft freeboard

Safe and Effective Launch and Recovery from USVs

While launch and recovery from a vessel is inherently risky, these risks can compound when completed from an unmanned surface vessel. Kraken's compact USV LARS is designed for smooth, safe, and robust launch and recovery operations from small USVs without human intervention.

USV LARS Dimensions	6.00 m L x 1.20 m W x 1.65 m H		
KATFISH Operational Depth	100 m	200 m	300 m
Tow Cable Length	500 m	1000 m	1500 m
Total System Weight with KATFISH	1880 kg	2060 kg	2240 kg
Mounting	ISO 1161 Socket		
Material	Titanium		
Power	400 VDC, 10-22 kW		
System Components	Inboard or on deck control cabinets, Generator, Hydraulic power unit, Liquid heat exchanger, USBL positioning system		
Operation Parameters	Launch and Recovery Sea State 4 Freeboard up to 1.2 m		

Design, features, and technical specifications are subject to change without notice

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